BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 10.00Lakhs

Name of Work: Improvements to roads and drains in Amba Bhavani layout in Attur ward no 03Yelahanka New Town Sub Division

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Earth work excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3, No. 138/ Item No. 19.1/ PWD SR 2015-16	Cum							
	Road levelling:-Main road		1	105.00	5.30	0.20	111.30		
	Cross roads		2	55.00	5.25	0.20	115.50		
	Berm cutting		1	205.00	0.50	0.10	10.20		
							237.00	115.56	27388.00
	Basic Rate	107.00							
	Area Weightage @ 8%	8.56							
	Total	**115.56**							
2	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **hard soil** not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, **No. 5/ Item No. 2.4/ PWD SR 2015-16**	Cum							
	Culverts		1	8.50	1.50	0.89	11.40		
			3	6.00	1.50	0.80	21.60		
							33.00	288.36	9515.00
	Basic Rate	267.00							
	Area Weightage @ 8%	21.36							
	Total	**288.36**							

3	KSRB 4-1.3:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed,machine mixed,concrete laid in layers not exeeding 15cms.thick, well compacted in foundation,including cost of all materials,labour,HOM of machinery,curing complete as per specifications.Specification no KBS4.1,4.2(Item no 4.3,Page no12,PWD SR 2015-16)	Cum							
	Culverts		1	8.50	1.50	0.10	1.30		
			3	6.00	1.50	0.12	3.24		
							4.54	**5070.60**	**23023.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	5070.60							
4	KSRB 4.2.2 : Providing and laying in position Reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming etc as per specification&direction of the engineer incharge of work (pwd sr2015-16,p.no13,sno4.11)	Cum							
	For culvert bottom		1	8.50	1.40	0.20	2.38		
			3	6.00	1.40	0.20	5.04		
	Side walls		2	8.50	0.20	0.60	2.04		
			6	6.00	0.20	0.60	4.32		
	For deck slab		1	8.50	1.04	0.23	2.02		
			3	6.00	0.90	0.23	3.73		
							19.53	**6198.12**	**121046.00**
	Basic rate	5739.00							

	Add 8% AW	459.12							
	Total	6198.12							
5	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications.Specification noKBS 4.6.3,TMT bars Fe550(pwd sr2015-16,p.no17,s.no4.46)	Qtl							
	100 kg / cum						**19.53**	6980.58	**136327.00**
	Basic rate	6463.50							
	Add 8% AW	517.08							
	Total	6980.58							
6	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters,bittresses,buttresses plinth and string course including cost of all materials,labour complete asperspecificationS.Specification no.KBS 4.6.2(pwd sr2014-15,p.no15/4.31)	Sqm							
	Side walls		4	8.50		1.03	35.02		
			12	6.00		1.03	74.16		
	Deck slab		1	8.50	0.75		6.38		
			3	6.00	0.61		10.94		
	Basic rate	284.00					**126.50**	**306.72**	**38800.00**
	Add 8% AW	22.72							
	Total	306.72							

7	Removing B.S slab of drain and stacking (P.No 25 I.No 5.32)	sqm							
			1	105.00	1.35		141.75		
			1	205.00	1.35		276.75		
							418.50		
		Deduct 20%of Missing slabs qty					60.00		
	House portion		6	12.00	1.35		97.20		
			1	8.37	1.35		11.30		
							168.50		
							250.00	**63.72**	**15930.00**
	Basic Rate	59.00							
	Area Weightage @ 8%	4.72							
	Total	63.72							
8	Refixing stone slabs of drains and pointing in CM(1:3)(P.No 25 I.No 5.33)	Sqm							
			Vide Item No. 2				**250.00**	**78.84**	**19710.00**
	Basic Rate	73.00							
	Area Weightage @ 8%	5.84							
	Total	78.84							
9	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete do 7.5 cms thick(P.No 25 I.No 5.31.1)	sqm							
		20%of Missing slabs qty					**60.00**	**663.12**	**39787.00**
	Basic Rate	614.00							
	Area Weightage @ 8%	49.12							
	Total	663.12							
10	KSRRB M100-1 Loading and un loading of stone boulder/Stone aggregates/sand/kanker/Mooru m.KSRRB M100-1:Placing tipper at loading point,loading with front end loader,dumping,turning for return trip,excluding time for haulage and return trip complete as per specifications(Item no17.1,Page no 130, PWD SR 2015-16)	Cum							
			Vide Item No. 1				**237.00**	**73.44**	**17405.00**
	Basic Rate	68.00							
	Area Weightage @ 8%	5.44							

		73.44							
11	Construction of granular sub-base by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve thedesired density, complete as per clause 401 of MORT & H For Grading-II Materia(PWD SR2015-16, P.NOl51/20.5.2)								
	Road portioned		1	105.00	5.12	0.25	134.37		
			2	55.00	5.15	0.25	141.63		
							276.00	**1449.36**	**400022.00**
	Basic Rate	1342.00							
	Area Weightage @ 8%	107.36							
	Total	**1449.36**							
12	KSRRB M1400-14.2. Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density. Material Using Scrining Crushable Type such as Moorum or Gravel Grading - III (Manual) Clause : 404 (P.154/I.20.15.3 PWD SR - 2015-16).								
	WBM Road		1	105.00	5.12	0.10	53.75		
			2	55.00	5.15	0.10	56.65		
	Basic Rate	1284.00					**110.40**	**1354.72**	**149560.00**
	Area Weightage @ 8%	70.72							
	Total	1354.72							

13	Miscellaneous charges								339 1569.00
									1000000.00
	(Rupees Ten lakhs only)								

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2015-16
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

B.N Ramesh
Assistant Engineer
Ward no: 03

Assistant Executive Engineer
Yelahanka New town Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

Administrative Sanction for Rs. 10.00 Lakhs
Ten Lakhs only
is accorded under head P-1771
2015.16
Registered as CE No.
to conditions contained
No. EE/YNK/AA/60/15.16 2-1-16
Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 10.00
Rupees Ten Lakhs only
Under P.1771-2015-16
Registered as CE ( ) No. 99
Subject to conditions contained in
enclosed memo EE ( ) No. /99
Dt.
EE/YNK/TS/77/15.16
Dated 2-1-16 Rs. 10.00 Lakhs
Executive Engineer